

KubeRay Roadmap

v1.5 Target Date: Nov. 1, 2025 (Branch Cut: Oct. 10)

The main focus of KubeRay v1.5 is to better support different accelerators.

- Better schedulers support
- Seamless UX for different accelerators
 - Passing accelerators (including something like MIG and DRA) into `rayStartParams`.
 - Make sure features like observability and scheduling work with multi-host.
- Streamline RayJob
- Workloads with multiple SPMD systems

Project	Priority	Owner	Scope	Status	
Improve RayJob UX, performance, and scalability	P0	Han-Ru / Kun	3907		WIP
RayJob DeletionPolicy API	P1	Wei-Cheng Lai	3714		WIP
RayService incremental upgrade alpha	P1	Ryan	REP Project Tracker		WIP
Support Cron scheduling for RayJob	P1	Han-Ju	2426		WIP
Simplify TPU webhook	P1	Aaron	3902		PoC
Ray History Server	P1	Kun Wu Han-Ru / Nick	KubeRay HistoryServer Prop... [External] History server		WIP
Integrate Volcano with RayJob	P2	Jun-Hao	1580		WIP
Autoscaler V2 Umbrella	P2	Ruei-An / Kai-Hsun / Aaron	2600	WIP	
Autoscaler e2e tests	P2	Ruei-An / Kai-Hsun	2173	WIP	

Get rid of wget dependency Consolidate Ray health check endpoints	P2	Jay / Spencer	3837 Follow up on the slim image name.		PAUSED
KubeRay API Server V2 Compute template	P2	Ruei-An / Nary / Cheyu	[External] KubeRay APIServ...		WIP
KubeRay dashboard	P2	Steve	[External] KubeRay dashboa...		
KubeRay SLI (Service Level Indicator) metrics	P2	Troy	TBD		
Pass labels into Ray to support label-based scheduling	P0	Ryan	3699 Discussion Summarized in: [External] Configuring Autosc...		Won't do
Integrate Koordinator with RayCluster	P2		Either Volcano or Koordinator is fine for the user.		Won't do
Integrate Koordinator with RayJob	P2		Either Volcano or Koordinator is fine for the user.		Won't do
Make sure features like observability and scheduling work with multi-host	P2	Troy+Nick	CRD status multi-host observability Scheduling multi-host observability		DONE
Integrate YuniKorn with RayJob	P2	Troy / Owen	[External] RayJob/YuniKorn Integration...		DONE
Integrate Kueue with RayService	P0	Wei	3841		Done
Support mounting PVs to different Pods in the same worker group	P0	Kun Wu	3839	Done	
Add DeepSeek example	P0	Seiji / Yiwen	ray-project/ray#54850	Done	
Autoscaler V2 IPPR RBAC	P1	Ruei-An	https://github.com/ray-project/kuberay/pull/3860		DONE

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